ABSTRACT OF THE DISCLOSURE

Two logically separated scatternets, the maximum connectivity scatternet (MCS) and the traffic scatternet (TS) are provided. An MCS maintains information about all nodes in the scatternet in order to facilitate a quick path establishment when a destination node is searched for. The MCS is maintained autonomously as new nodes arrive to the scatternet and other nodes leave the scatternet. A TS is established on a per session basis, primarily between two nodes in the scatternet. The TS is designed to achieve the best possible performance for the data flow between the involved nodes. When supported, in addition to establishing dedicated TS piconets and/or dedicated TS links, this may involve switching to the Bluetooth high speed mode on TS links. An overall scatternet may consist of one MCS and several TSs.